

Publications MIRP Program 2012 – 2014

Full Articles

- S.C. Srivastava. Paving the way for Personalized Medicine: Production of some Promising Theragnostic Radionuclides at Brookhaven National Laboratory. *Seminars in Nuclear Medicine*, **42**: 151-163, 2012.
- D.G. Medvedev, L.F. Mausner, G.E. Meinken, S.O Kurczak, H.J. Schnakenberg, E. Korach, C.J, Dodge, S.C. Srivastava. Development of large scale production of Cu-67 from Zn-68 at the high energy accelerator: Closing the Zn-68 cycle. *Int J Appl Radiat Isot* **70**:423-429, 2012.
- S.C. Srivastava. A bridge not too far: Personalized Medicine with the use of theragnostic radiopharmaceuticals. *Journal of Postgraduate Medicine, Education and Research* **47**: 31-46, 2013.
- S.C. Srivastava. Theragnostic use of Dual-purpose high LET electron Emitters for the imaging and treatment of active atheromatous disease. *World J Nucl Med* **12**: 118-120, 2013.
- S.C. Srivastava and L.F. Mausner. Therapeutic Radionuclides: Production, Physical Characteristics, and Applications. *In: A Handbook of Medical Radiology- Radiation Oncology volume - Therapeutic Nuclear Medicine*, [Ed. R.P. Baum], Springer-Verlag Berlin Heidelberg 2014 (pp 11 – 49).
- N. Stevenson, G. St. George, J. Simón, S.C. Srivastava, et al. Methods of producing high specific activity Sn-117m with commercial cyclotrons. *J Nucl and Radioanalytical Chemistry*, 2014 (in press).
- J. Li, D. Mueller, S.C. Srivastava, et al. Acute Tin-117m Therapy Reduces Inflammation in an Atherosclerotic Rabbit Model, *J. Amer. College Cardiology, Intervention*, 2014 (In press).
- R W Ormsby, T M Nally, C A Mitchel, S. Smith et al Chemical modification of multiwalled carbon nanotube with a bifunctional caged ligand for radioactive labeling. *Acta Materialia* (2014) **64** 54-61.
- S.Smith et al, Leaching properties of chromate-containing epoxy films using radiotracers, PALS and SEM. *Prog. Org. Coatings*. (2014) **77(1)** 257-267. 2013
- K Patil, S Sellaiyan, R Rajkhowa, T Tsuzuki, T Lin, S V Smith, X Wang and A Uedono. Positron annihilation lifetime spectroscopy of mechanically milled protein fibre powders and their free volume aspects. *J. Phys. Conf. Ser.* (2013) **443** 012054.
- Synthesis of hexa aza cages, SarAr-NCS and AmBaSar and a study of their metal complexation, conjugation to nanomaterials and proteins for application in radioimaging and therapy. *Dalton Trans.*, (2013) 42 14402- 14640. DOI: 10.1039/C3DT51199E . Includes invited cover for Daltons Transactions.
- Jan Rijn Zeevaart, Judith Wagener, Biljana Marjanovic-Painter, Mike Sathekge, Nischal Soni, Christa Zinn, Gary Perkins, and Suzanne Smith. Production of high specific activity

^{195m}Pt cisplatinium at South African Nuclear Energy Corporation for Phase 0 clinical trials in healthy individual subjects. *J Radiolabel Comp.* (2013) **56(9-10)** 495-503.

- Jonathan Fitzsimmons, Leonard Mausner. Development of a production scale purification of Ge-68 from irradiated gallium metal. Accepted into *Radiochemica Acta* 2014.
- Jonathan Fitzsimmons, Leonard Mausner. Selective separation of germanium from gallium, zinc and cobalt. Submitted to *Applied Radiation and Isotopes*.
- Jonathan Fitzsimmons, Leonard Mausner. Production scale separation of Ge-68 from irradiated gallium metal. Submitted to *Applied Radiation and Isotopes*.
- J.M. Fitzsimmons, L.F. Mausner. Determination of the specific activity and isotope ratios of strontium in purified strontium-82 by gamma spectroscopy and ICP-OES/MS. Submitted to the *Journal of Analytical Atomic Spectroscopy*.
- Jonathan M. Fitzsimmons, Leonard F. Mausner. Determination of the Specific Activity and Isotope Ratios of Germanium in Production Scale Germanium-68 by Gamma Spectroscopy and ICP-MS. Submitted to *Journal of Radioanalytical and Nuclear Chemistry*.
- Jonathan Fitzsimmons, Robert Atcher, Cathy Cutler. Pre labeling studies of PEI with ²²⁵Ac, ¹⁴⁹Pm and ⁶⁴Cu for the preparation of a polymer chelator conjugate of Trastuzumab. Submitted to *Journal of Radioanalytical and Nuclear Chemistry*.